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TL671.9.Z4

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Moskva, Voenizdat, 1949. 511 p., illus.

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Peat

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(MIRA 15:4)

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9 no. 1:20-22 Ja '64.

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of drilling operations. Neft. khoz. 38 no.12:5-6 D '60.

(MIRA 14:4)

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KUDENKO, S.A.; NEBABA, P.S.

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SHCHERBAKOVA, G.V., red.; YAROV, E.M., tekhn.red.

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Socialist Republic. Khleb.i kon.prom. 1 no.7:3-5 J1 '57.

(MIRA 10:7)

1. Rosglavkhleb.

(Bakers and bakeries)

~~SECRET~~
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IL'NSKIY, N. B., Cand of Phys-Math Sci -- (diss) "The Construction of a Subterranean
Contour of a Hydrotechnical Structure According to a Given Diagram of Thrust,"
Kazan', 1959, 8 pp (Kazan' State Univ im Ul'yanov-Lenin) (KL, 5-60, 122)

NUZHIN, Mikhail Tikhonovich; IL'INSKIY, Nikolay Borisovich; BYK, T.N., red.; AKSENT'YEV, L.A., red.

[Methods for constructing the underground outline of hydraulic structures; inverse boundary problems in flow theory] Metody postroeniia podzemnogo kontura gidrotekhnicheskikh sooruzhenii; obratnye kraevye zadachi teorii fil'tratsii. Kazan', Izd-vo Kazanskogo univ., 1963. 136 p. (MIRA 17:11)

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Cand Tech Sci

Dissertation: "Graphic-Analytical Method for Developing Plans
Photogrammetric Series and Evalaution of their Precision."

20 Oct 49

Moscow Inst of Engineers for Organization of Land Exploitation.

SO Vecheryaya Moskva
Sum 71

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SO: Knizhnaya Letopis' No. 46, 12 November 1955. Moscow.

3(2)

PHASE I BOOK EXPLOITATION

SOV/3157

Il'inskiy, Nikolay Dmitriyevich

Obosnovaniye analiticheskikh metodov stereofotogrammetricheskoy obrabotki materialov aerofotos"yemki (Substantiation of Analytical Methods in Stereophotogrammetric Processing of Aerial Photography Materials) Moscow, Geodezizdat, 1959. 178 p. Errata slip inserted. 3,500 copies printed.

Ed.: A. V. Maslov; Tech. Ed.: V. V. Romanova; Ed. of Publishing House: A. I. Shurygina.

PURPOSE: This book is intended for cartographers, geodesists and other persons interested in aerial photogrammetry and may be used by students and teachers as a textbook on that subject.

COVERAGE: The book treats of various aspects of aerial photogrammetry in three main parts. Part I introduces the exact analytical relationships between the coordinates of perspective conjugate points of oblique and vertical aerial photographs, employing various auxiliary coordinate systems located in the plane of

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USSR, and A. S. Chabotarev, Scientist, for editorial advice.
There are 34 references: 29 Soviet, 2 English, 2 German
and 1 French.

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Substantiation (Cont.)

SOV/3157

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AVAILABLE: Library of Congress

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2/16/60

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[Interpretation of aerial photographs] Deshifirovaniye aéro-
snimkov. Moskva, Izd-vo Mosk. univ., 1961. 184 p.
(MIRA 15:1)

(Photography, Aerial)

IL'INSKIY, N. P.

OSTROVSKOGO, M. Ye., LANDAU, L. G. - Arkhitekt, IL'INSKIY, N. P. - Arkhitekt,
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Vsesoyuznaya kontera tipovogo proyektirovaniya i tekhnicheskikh issle devaniy
(VTIS) Mintyashstroya

Analiz proyektnykh resheniy proizvodstvennykh zdaniy za 1948-1949 gg. Page 65

SO: Collection of Annotations of Scientific Research Work on Construction, compiled
in 1950. Moscow, 1951

IL'INSKIY, Nikolay Fedotovich; DEMKOV, Ye.D., red.; LARIONOV, G.Ye.,
tekhn.red.

[Calculation and choice of resistances for electric motors]
Raschet i vyber soprotivlenii dlia elektrodvigatelsi. Moskva,
Gos.energ.isd-vo, 1959. 47 p. (Biblioteka elektromonters, no.13).
(MIRA 13:5)

(Electric motors)

(Electric resistance)

IL'INSKIY, N.F.

Single-phase connection of a three-phase asynchronous electric
motor. Prom. energ. 15 no.11:25-28 N '60. (MIRA 14:9)
(Electric motors, Induction)

IL'INSKIY, N.F., inzh.

Transistorized static converters. Elektrichestvo no.10:79-86
0 '61. (MIRA 14:10)
(Electric current converters)

S/105/63/000/002/001/003
E192/E382

AUTHOR: Il'inskiy, N.F. Engineer

TITLE: Analysis of transistorized frequency-converters with premagnetized intermediate transformers

PERIODICAL: Elektrichestvo, no. 2, 1963, 18 - 26

TEXT: One of the most successful analog-digital converters, based on signal-frequency conversion, is the circuit with premagnetized switching elements (Il'inskiy - Elektrichestvo, no. 10, 1961). The system is illustrated in Fig. 1a. It consists of an output transformer T_{p1} with windings w_1 , w'_1 , w_2 and w_5 , two transistors T_A and T_B and two premagnetized switching transformers T_{p2A} and T_{p2B} , each of these having four windings w_g , w'_p , w_y and w_c . The core of transformer T_{p1} does not saturate during the operation and can be made of almost any magnetic material. The saturating transformers T_{p2A} and T_{p2B} have cores with a rectangular hysteresis loop. The working windings w_p of the switching transformers can be connected in series or

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S/105/63/000/002/001/005
E192/B382

Analysis of

in parallel (as shown in Fig. 1a). In the latter case, it is possible to connect diodes into the circuits of the windings. The system operates as follows. Transistors T_A and T_B successively "connect" halves w_2 of the primary winding of the output transformer T_1 to the DC source E so that rectangular pulses are produced in the remaining windings of the transformer. The waveforms controlling the transistors are formed in the windings w_5 of the switching transformers whose primary windings are fed from the primary winding w_2 of the output transformer or directly from its primary windings w_1 and w_1' . The oscillation frequency is determined by the time taken to achieve saturation of the cores. This time depends on the change in the induction ΔB , which is determined by the magnetizing current of the cores. The minimum oscillation frequency corresponds to the induction change $\Delta B = 2B_s$. The operation of the system is analyzed under the assumption that the characteristic of the material of the cores of the switching transformers is in the form shown in Fig. 1b, i.e. the coercive force of the core of the material is very low. First, the working of the system with the windings w_p connected

Card 2/4

S/105/63/000/002/001/003

E192/E582

Analysis of

When the transformer is considered; three operating regimes are possible: 1) the transformer in the "operating" half-period is saturated so that the base current flows through the open transistor, the core of the transformer in the "control" half-period is saturated and both cores are saturated during each half-period. Expressions for the output frequency of the system for these three regimes are derived. The variant of the circuit with series-connected w_p windings is also investigated in the same manner. Similarly an expression for the frequency of the circuit with the diode is given. The results were verified experimentally by means of a specially constructed model. The experimental results are in good agreement with the calculated data. It was found experimentally that in the circuit with parallel connected w_p the frequency could be changed between 50 and 8 000 c.p.s. And that over a wide range (50 - 1 300 c.p.s.) the frequency was a linear function of the input signal. In the case of series-connected windings the input/output characteristic was nonlinear but the frequency was almost independent of the output load; also, the range did not exceed 1 : 25. When using the diodes it was possible

Card 3/4

Analysis of

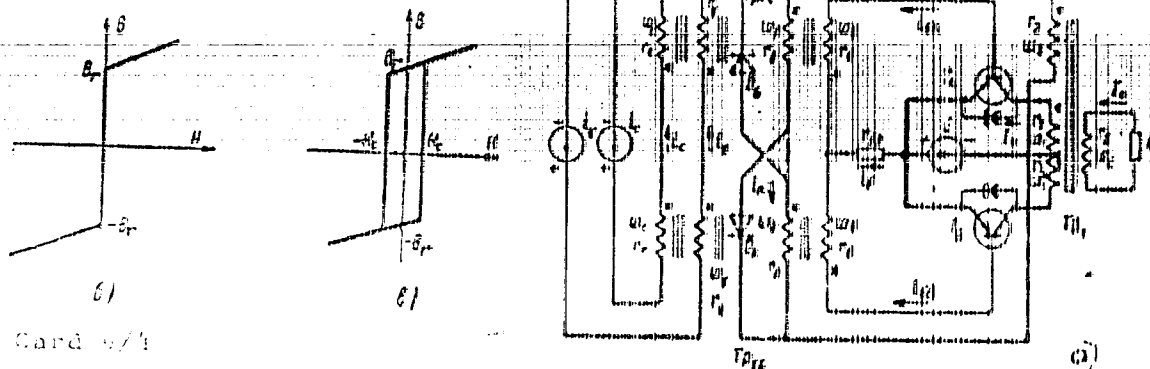
S/105/63/000/002/001/003
E192/E382

to reduce the input signal by about 50 - 80 times but the characteristic had a pronounced nonlinearity except over an operating range of 1:8. There are 8 figures.

ASSOCIATION: Moskovskiy energeticheskiy institut
(Moscow Power-engineering Institute)

SUBMITTED: November 3, 1962

Fig. 1:



IL'INSKIY, N.F. (Moskva)

Dynamics of frequency converters using transistor and ferrite
elements. Avtom. i telem. 24 no.10:1380-1386 0 '63.

(MIRA 16:11)

IL'INSKIY, N.F., inzh.

Power supply of a.c. motors from a static frequency converter
using power transistors. Trudy MEI no.38:73-86 '62.
(MIRA 17:2)

CHILIKIN, Mikhail Grigor'yevich; SOKOLOV, Mikhail Mikhaylovich;
SHINYANSKIY, Aleksandr Viktorovich; MILOVZOROV, V.I.,
kand. tekhn. nauk, retsenzent; IL'INSKIY, N.F., kand.
tekhn. nauk, red.

[Asynchronous electric drive with saturable reactors]
Asinkhronnyi elektroprivod s drosseliami nasyschenia.
Moskva, Energiia, 1964. 239 p. (MIRA 17:12)

GRISHIN, Ye.N.; IL'INSKIY, N.F.; KOPYLOV, I.P.

Determination of the spectrum of the harmonics of a magnetizing
force in nonsymmetrical windings. Elektricheskoye no.1:47-49
Ja '64. (MIRA 17:6)

1. Moskovskiy energeticheskiy institut.

KOSSOV, Oleg Alekseyevich; MOIN, V.S., inzh., retsenzant;
IL'INSKIY, N.F., kand. tekhn. nauk, nauchn. red.

[Transistor power amplifiers in switching operation]
Usiliteli moshechnosti na tranzistorakh v reshenie pe-
rekliuchenii. Moskva, Energiia, 1964. 303 p.
(MIRA 17:12)

UR 0000/64/001 000 0114 0 4

metody elektricheskikh izmereniy: trudy konferentsii, t. 11. Metody elektricheskikh izmereniy. Tsentralnyy issledovatel'skiy pribyay. Elementy issledovatel'skiy

...with parallel branches, the so-called
...the main component of the circuit.
...with diodes, an output signal
...diode circuit) input signal, although the
...it contains two practically linear
...varies with the supply voltage.
...linear current spectrum, the
...the present day.

...B-1000, 1000
...1000

ПРОГРАММА УЧЕБНО-НАУЧНОЙ КОНФЕРЕНЦИИ ПО АВТОМАТИЧЕСКОМУ КONTPOLY И МЕТОДАМ
ЭЛЕКТРИЧЕСКИХ ИЗМЕРЕНИЙ. 4th. Novosibirsk. 1962. Автоматический контроль

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ACCESSION NR: AR5008942

UR /0274/85/000/002/8064/8064

621.396.622:621.382.3

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz⁰. Svochnyy tom, Abs. 25384

AUTHOR: JI'inskiy, N. F.

TITLE: High-speed transistorized inverter

CITED SOURCE: Tr. Mosk. energ. in-ta, vyp. 56, 1964, 85-89

TOPIC TAGS: inverter, dc ac inverter 25

TRANSLATION: The principle of operation of a high-speed d-c/a-c inverter consisting of transistors and semiconductor diodes is described. Its circuit and a transient-process oscillogram are presented. Criteria of speed of operation and ways for minimizing the transient time are suggested. Bibl. 3.

SUB CODE: EE, EC

ENCL: 00

Card 1/1

BASHARIN, A.V.; BYSTROV, A.M.; VESHENEVSKIY, S.N.; VORONETSKIY, B.B.;
DROZDOV, N.G.; DRUZHININ, N.N.; IL'INSKIY, M.E.; PETECOV, I.I.;
PETROV, L.P.; SANDLER, A.S.; SOKOLOV, N.M.; CHILENIN, M.G.

Professor Andrei Trifonovich Golovan, 1901-1964; obituary.
Elektrichestvo no.1:92 Ja '65. (MIRA 18:7)

L 11546-66 EWT(d)/EWP(k)/EWP(1)

ACT. NR. AP6005030

SOURCE CODE: UR/0105/65/000/001/0092/0092

AUTHOR: Basharin, A. V.; Bystrov, A. M.; Veshenevskiy, S. N.; Voronetskiy, B. B.;
Drozdov, N. G.; Druzhinin, N. N.; Il'inskiy, N. F.; Petrov, I. I.; Petrov, L. P.;
Sandler, A. S.; Sokolov, M. M.; Chilikin, M. G.

ORG: none

TITLE: Professor Andrey Trifonovich Golovan

SOURCE: Elektrichestvo, no. 1, 1965, 92

TOPIC TAGS: electric engineering, electric engineering personnel

ABSTRACT: A brief obituary containing the following biographical information: Deceased was a doctor of technical sciences, a professor (Department of Electrical Equipment for Industrial Enterprises) of the Moscow Power Engineering Institute for the past 30 years, and a staff member since 1931 of the TsNIIEMash (Central Scientific-Research Institute of Heavy Machine Building). Died 15 Sep 64, at age 63, after a long and severe illness. In 1926, after graduating from the Leningrad Electrical Engineering Institute im. Ul'yanov, deceased became director of a substation within the Gor'kiy GRES. At the TsNIIEMash, the deceased worked out the methods for computing the electric drive of presses, drop hammers and other machine tools with percussion loads. The monograph on these methods has gained wide professional recognition. Deceased trained several thousand engineers and over 30 doctors and candidates of science. He authored over 50 scientific works, including the textbook "Osnovy Elektroprivoda" (Fundamentals of Electric Drive)

Cord//2

UDC: 621.34(493.32)

30
29
B

L 11546-86

ACC NR: AP6005030

published in 1948, with a revised second edition in 1959. He was awarded the Order of the Badge of Merit twice, and other decorations. Orig. art. has: 1 figure.

JPRS

SUB CODE: 09 / SUBM DATE: none

HW
Card 2/2

L 13138-66 EWT(1)/EWA(h)

ACC NR: AP6006715

SOURCE CODE: UR/CID/65/000/012/0034/0039

AUTHOR: Il'inskiy, N. F. (Candidate of technical sciences); Kikhtaylov, V.V. (Engr.)

ORG: Moscow Power Institute (Moskovskiy energeticheskiy institut)

TITLE: Static and dynamic states of a two-phase transistorized frequency
converter

SOURCE: Elektrichestvo, no.12, 1965, 34-39

TOPIC TAGS: frequency converter, transistorized oscillator, transistor,
electronic circuit

ABSTRACT: An analysis of the principle of operation, the static and dynamic operating states of a transistorized converter for converting continuous signals to a multiphased pulse system whose repetition rate and relative phase shift may be changed independently as a function of the two dc signals. The circuit consists of two similar single-phase converters. The transistors T_1 and T_2 of each of these converters sequentially connect to the power supply E one-half of the primary windings of the output transformers, causing emf's of various polarity to arise in all the other windings. Switching of the transistors determines the frequency of the output

Card 1/2

DEC: 641.337.6

L 13138-66

ACC NR: AP6006715

pulses and is caused by a reduction in base current of the open transformer until the transistor is unsaturated. Orig. art. has: 7 figures and 27 formulas.

SUB CODE: 09 / SUBM DATE: 24Jul65 / ORIG REF: 000

Card 2/2

HW

SADOV, F.I., doktor tekhn. nauk, prof.; CHAPLINA, N.D.; IVLIIYEV, V.G.; LUR'YE, A.L.; ABEZGUZ, A.Ya.; DYNIN, F.M.; ESKIN, I.L.; VASIL'YEV, G.V.; GAL'PERIN, M.M., retsenzent; IL'INSKIY, N.S., retsenzent; MORYGANOV, P.V., doktor tekhn. nauk, prof., retsenzent; MOSHKIN, V.I., retsenzent; RUDAKOV, D.N., retsenzent; TSVETKOV, M.N., retsenzent; DUKHOVNIY, F.N., red.

[Design and planning of finishing factories for the cotton industry] Proektirovanie otdelochnykh fabrik khlopchatobumazhnoi promyshlennosti. Moskva, Legkaia industriia, 1965. 355 p. (MIRA 18:7)

USSR/Medicine - Neurophysiology

FD-2804

Card 1/1 17, 6/19

Author : Il'inskiy, O. B.

Title : ~~Effect of the chemoreceptors of the small intestines on the~~
unstriated muscles

Periodical : Byul. eksp. biol. i med. 6, 22-27, June 1955

Abstract : Author reviews his experiments with cats to study the effect of the chemoreceptors of the small intestines on the unstriated muscles. Results obtained by him were similar to those of others regarding the effect of mechanoreceptors on the gastrointestinal tract. The regularity with which the effect on unstriated muscles could be observed in decerebrated animals with experimental cystitis made it possible to study the threshold of irritation for various effectors. In the majority of experiments this was greater for skeletal muscles than for unstriated muscles and still greater for blood pressure and respiration. 12 references, 9 USSR, 7 since 1940, graphs

Institution : Laboratory of the Physiology of Receptors (Head: Active Member Academy Medical Sciences USSR V. N. Chernigovskiy), Institute of Physiology imeni I. P. Pavlov (Director: Academician K. M. Bykov) Academy Sciences USSR, Leningrad

Submitted : 4 June 1954

IL'INSKIY, O. B.: Master Med Sci (diss) -- "Aspects of the effect of various narcotics on the reflex arc of the cervical and lumbar portions of the spinal cord". Leningrad, 1958. 18 pp (Acad Sci USSR, Inst of Physiology im I. P. Pavlov), 150 copies (KL, No 8, 1959, 138)

IL'INSKIY, O.B.

Differences in the rate of action of sodium amytal on reflex
arches of the cervical and lumbar areas of the spinal cord.
[with summary in English]. Biul.eksp.biol. i med. 45 no.4
79-82 Ap'58 (MIRA 11:5)

1. Iz laboratorii patofiziologii (nav. - prof. V.B. Galin
[deceased]) Instituta fiziologii imeni I.P. Pavlova (dir. -
akademik K.M. Bykov) AN SSSR, Leningrad. Predstavlena deystvitel'
nym chlenom AMN SSSR V.N. Chernigovskim.

(AMOBARBITAL, effects

on spinal cord, rate differences in cervical &
lumbar areas (Rus))

(SPINAL CORD, effect of drugs on

amobarbital, rate differences in cervical & lumbar areas(Rus)

GANELINA, I.Ye.; ZIMOVAYA, N.G.; IL'INSKIY, O.B.; LEDNINEVA, V.A.;
MARTYNYUK, V.K.; MERKULOVA, O.S.; MUSTASHCHIKOVA, S.S.;
MYAGKAYA, I.P.; OSADCHIY, L.I.; POPOVA, T.V.; SEREBNENIKOV, I.S.;
TYUTRYUMOVA, Z.I.; CHERNICHENKO, V.A.; YAROSHINSKIY, A.Ya.

Interceptive component in the development of certain pathological
states. Trudy Inst.fiziol. 8:240-253 '59. (MIRA 13:5)

1. Laboratoriya patologicheskoy fiziologii (soveduyushchiy - V.S.
Galkin [deceased]) Instituta fiziologii im. I.P. Pavlova AN SSSR.
(SENSES AND SENSATION) (PATHOLOGY)

IL'INSKIT, O.B.

Effect of narcotics on monosynaptic cervical and lumbar spinal reflexes. Biol.eksp.biol. i med. no.7:63-67 J1 '59.

(NIRA 12:10)

1. Iz laboratorii patofiziologii (zav. - prof. V.S. Galkin [deceased]) i laboratorii fiziologii krovoobrashcheniya i dykhaniya (zav. - prof. G.P. Konradi) Instituta fiziologii imeni I.P. Pavlova (dir. - akademik K.M. Bukov [deceased]) AN SSSR, Leningrad. Predstavlena deystvitel'nyy chlenom AMN SSSR V.N. Chernigovskiy.

(SPINAL CORD - physiology)

(NARCOTICS - pharmacology)

(REFLEX - pharmacology)

IL'INSKIY, O.B. (Leningrad)

Effect of narcotics on spinal reflexes. Pat. fiziol. i eksp.
tarap. 4 no. 6:40-44 N-D '60. (MIRA 14:2)

1. Iz laboratorii patofiziologii (zav. - prof. V.S. Galkin [deceased])
i laboratorii fiziologii krovoobrashcheniya i dykhaniya (zav. -
prof. G.P. Konradi) Instituta fiziologii imeni I.P. Pavlova.
(SPINAL CORD) (BARBITURATES)

IL'INSKIY, O.B.

Effect of narcotics on flexor and extensor reflexes of the lumbar portion of the spinal cord. *Fiziol.skur.* 46 no.1:90-97 Ja '60.

(MIRA 13:5)

1. From the laboratory of circulatory and respiratory physiology
I.P. Pavlov Institute of Physiology, Leningrad.

(AMORBITAL pharmacol.)

(URETHANE pharmacol.)

(SPINAL COND pharmacol.)

II'INSKIY, O.B.

Effect of pentaphene and strychnine on polysynaptic reflexes of various segments of the spinal cord. Biul. eksp. biol. i med. 49 no. 6:66-69 Je '60. (M (NCIRA 13:8)

1. Iz laboratorii fiziologii krovoobraashcheniya i dykhaniya (zav. - prof. G.P. Konradi) Institut fiziologii im. I.P. Pavlova (dir. - akademik K.M. Bykov [deceased] AN SSSR, Leningrad. Predstavlena deystv. chlenom AMN SSSR V.V. Parinym, (SPINAL CORD) (CAPROIC ACID) (STRYCHNINE)

IL'INSKIY, O.B.; TERTYSHNIK, N.T.

Electrotonic analysis of the action of different narcotics on the frog nerve. Dokl. AN SSSR 135 no.4:1005-1008 '60. (MIRA 13:11)

1. Institut fiziologii im. I.P.Pavlova Akademii nauk SSSR.
Predstavleno akademikom V.N.Chernigovskim.
(Narcotics) (Nerves)

IL'INSKIY, O.B.

Development of unequal sensitivity in the cervical and lumbar divisions of the spinal cord to narcotic action in postnatal ontogenesis. Fiziol.shur. 47 no.5:591-597 My '61. (MIRA 14:5)

1. From the Laboratory of Circulatory and Respiratory Physiology,
I.P.Pavlov Institute of Physiology, Leningrad.
(SPINAL CORD) (THIOPENTAL) (AGITATION)

IL'INSKIY, O.B.

Local and spreading potentials of individual mechanoreceptors
(Vater-Pacini bodies). Dokl. AN SSSR 142 no.2:488-490 Ja '62.
(NIRA 15:2)

1. Institut fiziologii im. I.P.Pavlova AN SSSR. Predstavleno
akademikom V.N.Chernigovskim.
(PACINIAN BODIES)
(ELECTROPHYSIOLOGY)

L 17050-63

EWI(m)/EDS/ES(j) AFPTC/ASD

9/205/63/001/002/010/024

AR/K

AUTHORS: Il'inskiy, O. B. and Kemerov, Ye. I.

TITLE: Action of beta radiation on bioelectric activity of single nerve ending (Vater-Paccini body)

PERIODICAL: Radiobiologiya, v. 3, no. 2, 1963, 215-219

TEXT: An attempt is made in this work to observe the changes in the activity of single receptor at the time of irradiation. A very convenient model for conducting such experiments is provided by Paccini bodies located in the mesentery of cats, which are typical mechanical receptors. Experiments were conducted on cats which were anesthetized with a mixture of urethane and chloralose. The effect of β -radiation in the dose of 930 rads on bioelectric activity of single mechanical receptors in the mesentery was investigated. The experiments were conducted at body temperature 36-38°C. The blood supply of receptors was maintained normal. Irritation of nerve ends was adrenergic. It was shown that under the influence of ionizing radiation, the threshold was lowered for the occurrence of commissure in the axon of the receptor. However, in no one of the experiments were there occurrences of impulses in the receptor's receptor under the influence of radiation. The experiments with irradiation of nerve (n. saphenus) showed the absence of changes of irritability

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L 17050-63

S/204/59/001/002/010/024

. Action of beta

2

in it under the influence of the same dose of radiation. On these bases, the authors make the conclusion regarding the primary action of radiation on generative membrane of the nerve end and on the membrane of the nerve fiber. The article contains 1 figure and a 12-item bibliography.

ASSOCIATION: Institut fiziologii im. I. P. Pavlova AN SSSR (Institute of Physiology
im. I. P. Pavlov, Academy of Sciences of the USSR) and Institut meditsi-
nskoj radiologii MZ SSSR (Institute of Medical Radiology, Ministry
of Health USSR)

SUBMITTED: January 8, 1962

Card 2/2

IL'INSKIY, O.B., kand.med.nauk

Seminar on psycho- and neuropharmacology. Vest. AN SSSR 33 no.9:
78-80 8 '63. (MIRA 16:9)

(Pharmacology)

IL'INSKIY, O.B.; FIKS, V.B.

Mechanism of the genesis of stimulation in solitary mechanoreceptors.
Dokl. AN SSSR 152 no.1:218-220 8 '63. (MIRA 16:9)

1. Predstavleno akademikom V.N.Chernigovskim.
(RECEPTORS (NEUROLOGY))

IL'INSKIY, O.B.; LEBEDEVA, V.A.

Changes in the blood pressure and afferent impulses in the intestinal nerves following the action of solutions without and with increased potassium content on the intestinal receptors. Fiziol. zh. SSSR Sechenov 49 no.6:751-759 '63
(MIRA 17:1)

1. From the Laboratory of General Physiology, Pavlov Institute of Physiology, Leningrad.

IL'INSKIY, O.B.

Characteristics of the effect of various narcotics on reflexes
of the cervical and lumbar sections of the spinal cord. Trudy
Inst. fiziol. 10:324-335 '62 (MIRA 17:3)

1, Laboratoriya patofiziologii (zav. - V.S. Galkin [deceased])
i laboratoriya fiziologii krovoobrashcheniya i dykhaniya (zav. -
G.P. Konradi) Instituta fiziologii imeni Pavlova AN SSSR.

IL'INSKIY, O.B.; KOMAROV, Ye.I.

Effect of β -irradiation on the bioelectric activity of a single nerve ending. (Paccinian body). Radiobiologiya, 3 no. 2:216-219 '63. (MIRA 17:1)

1. Institut fiziologii imeni I.P.Pavlova AN SSSR i Institut meditsinskoy radiologii Ministerstva zdravookhraneniya SSSR, Leningrad.

IL'INSKIY, O.B.

Properties of single mechanoreceptors (Vater-Pacini corpuscles).
Fiziol. zhur. 49 no.2:201-207 F'64 (MIRA 17:3)

1. Laboratoriya obshchey fiziologii Instituta fiziologii
imeni I.P.Pavlova AN SSSR, Leningrad.

IL'INSKIY, O.B.

Preparation of a single mammalian nerve fiber. Biul. eksp. biol.
i med. 58 no.8:123-125 Ag '64. (MIRA 18:3)

1. Laboratoriya obshchey fiziologii (zav. - akademik V.N. Chernigovskiy) Instituta fiziologii imeni Pavlova AN SSSR, Leningrad.
Submitted July 8, 1963.

IL' INSKIY, O.B.; FIKS, V.B.; KHRAPKOVA, S.I.

Effect of temperature on the bioelectric activity of Pacinian
bodies. Dokl. AN SSSR 164 no.1:227-229 S '65.

(MIRA 18:9)

1. Institut fiziologii im. I.P. Pavlova AN SSSR. Submitted
July 23, 1964.

L 38248-66 EWT(1) DD

ACC NR: AP6028674

SOURCE CODE: UR/0020/66/166/005/1243/1245

AUTHOR: Il'inskiy, O. B.; Akoyev, G. N.

ORG: Institute of Physiology im. I. P. Pavlov, AN SSSR (Institut fiziologii AN SSSR)

TITLE: Action of a direct current on individual mechanoreceptors

SOURCE: AN SSSR. Doklady, v. 166, no. 5, 1966, 1243-1245

TOPIC TAGS: cat, electromagnetic biologic effect, nervous system

ABSTRACT: The action of direct currents on single Pacinian corpuscles isolated from the mesentery of the cat intestine was studied. The results indicated that electric currents had no effect on transformation processes occurring at the surface of the mechanoreceptor membrane under the action of an adequate mechanical irritation. Blocking of the generation of a spike with novocain made the mechano-receptor insensitive to electric currents: a response developed only on application of a mechanical stimulus. Apparently the functioning of the receptor membrane of Pacinian corpuscles involves two systems, one of which is excited by electric currents and the other not excited by them. This article was presented by Academician V. N. Chernigovskiy on 5 April 1965. Orig. art. has: 4 figures. [JPRS: 36,932]

SUB CODE: 06 / SUBM DATE: 01Mar65 / ORIG REF: 002 / OTH REF: 009

UDC: 612.014.42

LEINSKIY, C. K.

PHASE I BOOK EXPLOITATION

752

Akademiya nauk SSSR. Okeanograficheskaya komissiya

Okeanologicheskiye issledovaniya severo-zapadnoy chast' Tikhogo Okeana
(Oceanographic Research of the Northwestern Part of the Pacific
Ocean) Moscow, Izd-vo AN SSSR, 1958. 148 p. (Series: Its:
Trudy, t. 2) 1,600 copies printed.

Resp. Ed.: Zenkevich, L.A., Corresponding Member, USSR Academy of
Sciences; Ed. of Publishing House: Reznichenko, O.G.; Tech. Ed.:
Polyakova, T.V.

PURPOSE: The collection of articles is intended for oceanographers
and naval personnel, and also for piscatologists.

COVERAGE: This collection of articles reports the results of obser-
vations made in the Pacific by the Institute of Oceanology of the
Academy of Sciences, USSR. In 1949, the Institute launched a
systematic five-year program of scientific exploration of certain
hydrographic peculiarities of the Soviet Pacific area. The

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Oceanographic Research (Cont.)

752

Lisitsyn, A.P. Processes of Contemporary Sedimentation in the Bering Sea 45

The author describes methods used in the analysis of bottom deposits and discusses the influence of rivers (Yukon, Anadyr', etc.) on the process of sedimentation. The main climatic, hydrological and hydrochemical peculiarities of the Bering Sea are pointed out. Three types of sediments are analyzed in special subchapters: terrigenous sediments, biogeneous sediments, and volcanogenic deposits.

Zenkovich, V.P. Basic Problems in Studying the Littoral of Far Eastern Seas 52

The article points out the failure of the Institute of Oceanology to devote itself to a systematic study of the Soviet Pacific littoral and enumerates reasons in favor of such study. The author describes the impact of ice, solifluxion, weathering and tidal waters on shores. These problems may be solved by following the experience gained at Black Sea stations.

Card 7/14

Oceanographic Research (Cont.)

752

- Ionin, A.S. Some Peculiarities in the Dynamics and Morphology of the Bering Sea Coast 55
The article reports on a number of reconnaissance jobs undertaken by a group of scientists on the trawler "Geolog". The main morphogenic types of coastal slopes are discussed. Three photographs and a map are included. The author offers a classification of shore types and surveys the main types of deposition.
- Zenkevich, L.A. Objectives of Biological Exploration in Far Eastern Seas Undertaken by the Institute of Oceanology of the Academy of Sciences, USSR 66
The article reports results from studies of plankton, nekton, benthic organisms and micro-organisms. Particular attention is paid to shipworms and encrustation.
- Usachev, P.I. General Features of the Distribution of Phytoplankton in Far Eastern Seas 75
Over 15,000 specimens of plankton were tested by the Complex Oceanographic Expedition in the plankton laboratory set up on the motorboat Vityaz'. The article analyzes the work of individual scientists employed by this laboratory, including: L.A. Zenkevich, O.K. Il'inskiy, G.V. Nikol'skiy, A.M. Batalin,
Card 8/14

Oceanographic Research (Cont.)

752

Nikol'skiy, G.V. Some Problems Concerning the Biological Foundations of Salmon Fishing in the Far East 126
Fluctuations in the quantity of salmon depends on climatic conditions. The article stresses the need to improve conditions for natural spawning in rivers and estuaries, and, whenever necessary, to organize spawning farms.

Vasin, B.N. Fur Seals and Sea Otters in Waters of the Okhotsk Sea and the Pacific Ocean 128
The article discusses conditions of life and the migration of seals (*Callorhinus ursinus*) and otters (*Enhydra lutris*) in the Soviet Pacific.

Sleptsov, M.M. Distribution of Cetaceans in the Northwestern Part of the Pacific 130
The article defines the territorial extent of the Pacific cetacean area, explains the zoogeography, and describes the main types of cetaceans of this area. A map is given.

Card 13/14

A Project of Distributing Weather Ships in the Far East

SOV/169-59-2-1554

the main trajectories of cyclones, but in such a manner that it would be possible to connect the reports from the weather ships with the observation data of the coastal stations. The author recommends five points: in the Sea of Japan, in the Sea of Okhotsk, in the Bering Sea, and two in the Pacific Ocean. Moreover, the study of the regularities of the atmospheric circulation and of the meteorologic conditions in the waters of the Far East is not possible out of connection with the general circulation of the atmosphere, because this does not allow the elaboration of a method for long-term forecasting. This fact demands the study of the atmospheric circulation over the Pacific Ocean. For investigating the Pacific Ocean, Soviet scientists selected two regions south of Japan ($\varphi = 20^\circ$ n.lat., $\lambda = 135^\circ$ e.long) and one in the central part of the Pacific Ocean ($\varphi = 40^\circ$ n.lat., $\lambda = 180^\circ$ e.long).

V.G. Samarin

Card 2/2

50-58-3-22/22

AUTHOR: Il'inskiy, O. K.

TITLE: Conference on the Regional Synoptic Meteorology of the Far East (Soveshchaniye po regional'noy sinoptike Dal'nego Vostoka)

PERIODICAL: Meteorologiya i Gidrologiya, 1958, Nr 3, pp. 70-71 (USSR)

ABSTRACT: This conference was held in Vladivostok from November 23 to 26, 1957. After the introductory words (spoken by P. A. Uryayev, Director of the Far Eastern Scientific Research Institute for Hydrometeorology) the lecture held by V. L. Arkhangel'skiy, Deputy Director of the Institute, as well as reports by various representatives of administrations of the Hydrometeorological Service of the Far East on the state and the prospects of the development of scientific research works in the field of synoptic meteorology were discussed. It was found that the regional synoptical research works in the Far East somewhat expanded during the last two-three years. A number of technical posts of the weather service joined these works. But the Far East is less investigated than other regions of the Soviet Union. It proved to be expedient that

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Conference on the Regional Synoptic Meteorology of the Far East 50-58-3-22/22

the synoptical and aerological researches of the Far Eastern Research Institute shall mainly concentrate upon the investigation of the main rules and peculiarities governing the atmospheric circulation in the Far Asia. The synoptists of the weather and hydrometeorological bureaus have to concentrate their efforts upon the investigation of peculiarities of the synoptical processes which cause dangerous weather phenomena and which are of special importance for the leading branches of political economics. The participants in the conference heard 7 lectures and discussed some synoptical works which had been carried out in recent time by the Far Eastern Scientific Research Institute for Hydrometeorology and by the Far Eastern Weather Bureau.

1. Meteorology--USSR

Card 2/2

USCOMM-DC-60041

AUTHOR: Il'inskiy, O. K. SOV/50-58-7-16/24

TITLE: Some Remarks on the Content of Textbooks on Synoptic Meteorology
(Nekotoryye zamechaniya o sodorzhanii uchebnikov sinopticheskoy meteorologii)

PERIODICAL: Meteorologiya i gidrologiya, 1958, Nr 7, pp. 59 - 60 (USSR)

ABSTRACT: In connection with the publication of the textbook "Synoptic Meteorology" by A.S.Zverev which without any doubt is a positive event, it would be necessary to make a few remarks on the subject matter as such: 1) There is hardly the necessity to write too much about techniques, the mapping and analysis of various maps in practice, lists and diagrams in a textbook on synoptic meteorology. In 1934 when the first textbook by S.P.Khromov was published it may still have been necessary, but since then instructions and directions came into use and it is no longer required. It is striking that in the textbook by Khromov (editions in 1932 and 1937) only about 10% of the content dealt with the problems of forecasts; in the later editions (1940 and 1948) this percentage increased and in the book by Zverev it is already 27%. This tends to show the achievements of synoptic theory and practical work

Card 1/3

Some Remarks on the Content of Textbooks on Synoptic
Meteorology

SOV/50-58-7-16/20

in the past 20 years and for their correct use in textbooks.
2) In the preface of the first edition of the textbook by Khromov it is pointed out that the author regarded it necessary to introduce a few informations from the field of dynamics and thermodynamics of the atmosphere into his book because of the lack of meteorological technical literature. In fact, almost no textbooks were to be had for general and dynamic meteorology in 1934. In a modern textbook the problems of the general and dynamic meteorology must be incorporated in an organic way into the explanation of real synoptic problems. There is no doubt that the removal of purely technical informations and methods on the one hand and the bordering meteorological disciplines turns the textbook into a unified whole, in which the real synoptic problems are dealt with more in detail. 3) An important problem which was not entered in the book is the problem of the geography of synoptic processes. Even in special books and monographs on synoptic regional processes it will be necessary to deal with these problems in textbooks for synoptic meteorology. At present the demand is the greater as no such textbooks and monographs exist.

Card 2/3

Some Remarks on the Content of Textbooks on Synoptic
Meteorology

SOV/50-58-7-16/2b

1. Meteorology--Textbooks

Card 3/3

IL'INSKIY, O.K.

The anticyclone of the Sea of Okhotsk. Trudy Dal'nevost.MGMI
no.7:10-32 '59. (MIRA 13:6)
(Okhotsk, Sea of--Cyclones)

3 (7)

AUTHOR: Il'inskiy, O. K.

SOV/50-59-8-3/19

TITLE: On the Problem of the Northern Branch of Zonal Transport Above Asia in Winter (K voprosu o severnoy vetvi zonal'nogo perenosa nad Aziyey v zimniy period)

PERIODICAL: Meteorologiya i gidrologiya, 1959, Nr 8, pp 13 - 15 (USSR)

ABSTRACT: The paper by V. A. Bugayev (Ref 1) can be valued as a sign for the revision of the conventional ideas of the influence of the mountain ranges in Central Asia on the air currents in the troposphere. The configuration of the frontal zones on the maps of the baric topography shows that the mountains in Central Asia cannot be regarded as the cause for the bipartition of the western main current, but only as a hindrance for a junction of these two branches originating much more to the west above the Atlantic and Western Europe. It is shown here that in most cases it is more correct not to speak of a bipartition but of a lateral deviation before the mountain massif of Central Asia of the two previously formed frontal zones, the presence of the mountain massif being favorable to an intensification of them. It is shown that the southern current is strictly limited as to its width, and follows a direction which is almost

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On the Problem of the Northern Branch of Zonal
Transport Above Asia in Winter

SOV/50-59-8-3/19

equal to the western current above the whole of Asia, whereas the northern branch varies within wide limits, and often forms extended meanders. The mountain massif of Central Asia can be regarded first as a factor preventing a junction of the two branches and causing a disturbance in the northern branch, and second as a factor raising the baroclinity of the atmosphere in the northern and southern zones. It is pointed out that the term "junction" of the northern branch of the western current with the southern branch is not accurate, and should be replaced by the term "approach". The "junction" takes place, as is known, in the area of Japan. But here the two branches can always be distinguished. They do not join into one current and one frontal zone. This is confirmed by Japanese papers (Refs 10,11). Therefore - if the troposphere is regarded as a baroclinic medium - the conception put forward by G. D. Zubyan (Ref 6) concerning two planetary frontal zones in the northern hemisphere is to be considered acceptable. There are 1 figure and 11 references, 9 of which are Soviet.

Card 2/2

IL'INSKIY, O.K.

Regimen of the lower troposphere in the Vladivostok area during the
summer monsoon period. Meteor.i gidrol. no.7:25-27 J1 '60.

(MIRA 13:7)

(Vladivostok region--Meteorology)